5/8/2018

Supplier Name	McMaster- Carr Supply Co,	\$19.88 McMaster- Carr Supply Co,	\$20.48 McMaster- Carr Supply Co,	\$6.33 McMaster- Carr Supply Co,	McMaster- Carr Supply Co,	McMaster- Carr Supply Co,	McMaster- Carr Supply Co,	\$54.28 McMaster- Carr Supply Co,	McMaster- Carr Supply Co,	\$46.08 McMaster- Carr Supply Co,	\$34.28 McMaster-Carr Supply Co,
Total	\$122.70	\$19.88	\$20.48	\$6.33	\$9.28	\$7.22	\$76.52	\$54.28	\$95.21	\$46.08	\$34.28
ast											
Aging P Days	0	0	0	0	0	0	0	0	0	0	0
Price/Unit Days Due	\$ 20.45 / Ea	\$ 0.40 / Ea	\$ 2.05 / Ea	\$ 0.06 / pcs	\$ 0.37 / Ea	\$ 0.60 / Ea	\$ 3.83 / ft	\$ 18.09 / sf	\$ 31.74 / sf	\$ 11.52 / Ea	\$8.57 / Ea
Receive Date	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018
Status	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock
Container	S069399	S069400	S069440	S069401	S069441	S069402	S069442	S069455	S069456	5069403	S069404
Received Accounting Quantity Job No											
Received /	9	90	10	100	25	12	20	n	n	4	4
Due Date	5/8/2018										
Order	9	90	10	100	25	12	20	60		4	
Description Part Project Equipment Order No											
Project											
Part											E .
Description	Knob Grip	Bolt receive ea	Hex Head Screw	Retaining Ring receive pcs	socket head screw 5/16""-24	Ø0.437 OD x Ø0.054 WIRE x 2, 15.54 LBS/IN. SPRING receive ea	301 SS Strip, Fatigue- Resistant	301 SS Sheet, Fatigue- Resistant		Spring Catch receive ea	Smooth-Bore Seamless 304 SS Tubing, 3/8" OD, 0.049""
Purchased Item	90985A113	91247A122	91247A740	98407A132	92196A341	9657K122	2416K97	1217742	1217T45	3777T12	89895K451
Terms	2% 10 Net 30	-									
Rel	-	2	m	4	ın	ø	1	80	o o	10	-
Line Item No		``									
Line Rel Supplier Item No No	MCM001-										
PO No	PO039799 MCM001-										

5/8/2018

Supplier Name	aster-		Ala												_				
Sur	\$130.60 McMaster-	Carr	Supply	ဝိ													_		9.
Total	\$130.6																		\$1,604.76
Past Due																			
Aging Days	0																		
Receive Price/Unit Aging Past Date	\$ 60.1974																		
	5/8/2018																		
Status	Stock																		
Container No	\$069443																		
Received Accounting Container Quantity Job No No																			
	2																		314
Due																			
Order	2																		314
Equipment ID																			Total:
Project																			
Part No														_					
Description Part Project Equipment Order ID Qty	Bronze Round	Bar 1.000":	MATERIAL: OIL	IMPREGNATED	SINTERED	BRONZE	ROUND BAR	AS PER SAE	841 TYPE 1,	CLASS A OR	AMS 4805 OR	ASTM B438	GRADE 1,	TYPE 2 OR	MIL-B-5687D	TYPE 1,	GRADE 1	receive ft	
Purchased	MBRONZR1.000 Bronze Round																		
Terms	_																		
Line Rel	17												_						
PO No Supplier Item No No No																			
PO No																			



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO039799

Tel (613) 632-5200

Supplier: MCM001-VU

McMaster-Carr Supply Co,

P.O. Box 7690

Chicago, IL 60680-7690 USA

Phone: 330 995 5500 Fax: 330 995 9600 PO No:

PO039799

PO Date:

5/4/18 5/8/18

Due Date: Purchase Order

Revision:

Revision Date: Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200 Via:

Ground

Pymt Terms:

2% 10 Net 30

Freight Terms: Special Comments:

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	90985A113	1/pk	Knob Grip	Firmed	5/8/18	6 Ea	Cs O Ea	6 Ea	\$20.45/Ea	\$122.70
2	91247A122	25/pk	Bolt receive ea	Firmed	5/8/18	50 Ea	50× 0 Ea	50 Ea	\$0.3976/Ea	\$19.88
3	91247A740	5/pk	Hex Head Screw	Firmed	5/8/18	10 Ea	0 Ea	10 Ea	\$2.048/Ea	\$20.48
4	98407A132	100/pk	Retaining Ring receive pcs	Firmed	5/8/18	100 pcs	0 pcs	100 pcs	\$0.0633/pcs	\$6.33
5	92196A341	25/pk	socket head screw 5/16"-24	Firmed	5/8/18	25 Ea	0 Ea	25 Ea	\$0.3712/Ea	\$9.28
6	9657K122	12/pk	Ø0.437 OD x Ø0.054 WIRE x 2, 15.54 LBS/IN. SPRING receive ea	Firmed	5/8/18	12 Ea	0 Ea	12 Ea	\$0.601666/Ea	\$7.22
7	2416K97		301 SS Strip, Fatigue-Resistant	Firmed	5/8/18	20 ft	Jost Off	20 ft	\$3.826/ft	\$76.52
ine Item Note	2 pcs of 10 ft									
8	1217T42	3sf / pcs	301 SS Sheet, Fatigue-Resistant	Firmed	5/8/18	3 sf	0 sf	3 sf	\$18.09333/sf	\$54.28
9	1217T45	3sf / pcs	301 SS Sheet, Fatigue-Resistant	Firmed	5/8/18	3 st	3,) ⁰ sf	3 sf	\$31.73666/sf	\$95.21
10	3777T12	1/pk	Spring Catch receive ea	Firmed	5/8/18	4 Ea	4x 0 Ea	4 Ea	\$11.52/Ea	\$46.08
11	89895K451	8" per pcs	Smooth-Bore Seamless 304 SS Tubing, 3/8" OD, 0.049" Wall Thickness	Firmed	5/8/18	4 Ea	9 Ea	4 Ea	\$8.57/Ea	\$34.28

Plex 5/4/18 1:50 PM dart.lavoie.chanta

Part	Supplier			Due	Order	Received		Unit	F. A. v. Jan
	Part No	Description	Status		Quantity		Balance		Extended Price
90146A059		Pin Bent-Pull Clevis Pin with Hairpin Cotter Pin 5/16" Dia, 2-1/2" Usable Length	Firmed	5/8/18	7 Ea	0 Ea	7 Ea	\$2.59/Ea	\$18.13
93695K58		Window Seal	Firmed	5/8/18	50 ft	Soci Of	50 ft	\$0.323/ft	\$16.15
wo176557									
MT-BRONZE- C63000-R1.000			Firmed	5/8/18	6 ft	oft 6ft	6 ft		\$341.04
2 pcs of 3 ft									
MT-BRONZE- C63000-R1.250			Firmed	5/8/18	6 ft	0 ft 3 ft 3 ft	6 ft	\$85.6666/H DJ 18125/68 Algrosics	\$514.00
MT-NYLON 6- R1.000-B	2889K21 2 ft lenght	Nylon 6 Black Round Bar 1.000" Dia.	Firmed	5/8/18	6 ft	6fr 6fr	6 ft	\$15.43/ft	\$92.58
MBRONZR1.000	8932K45 6.5" long	Bronze Round Bar 1.000": MATERIAL: OIL IMPREGNATED SINTERED BRONZE ROUND BAR AS PER SAE 841 TYPE 1, CLASS A OR AMS 4805 OR ASTM B438 GRADE 1, TYPE 2 OR MIL-B- 5687D TYPE 1, GRADE 1 receive ft	Firmed	5/8/18	2.167 ft			\$60.185185/ft	\$130.42
4 pcs of 6.5"									
								Grand Total:	\$1,604.58
		Ord	der Note	s	100	id k	718	65/08	
							,	C	1
P F	wo176557 MT-BRONZE-C63000-R1.000 2 pcs of 3 ft MT-BRONZE-C63000-R1.250 MT-NYLON 6-R1.000-B MBRONZR1.000	wo176557 MT-BRONZE- C63000-R1.000 2 pcs of 3 ft MT-BRONZE- C63000-R1.250 8203K81 3 FT long MT-NYLON 6- R1.000-B 2889K21 2 ft lenght MBRONZR1.000 8932K45 6.5" long	Usable Length Window Seal	Usable Length Window Seal Firmed	Usable Length Window Seal Firmed 5/8/18	Usable Length	Usable Length	Usable Length Window Seal Firmed 5/8/18 50 ft 50 f	Usable Length

Plex 5/4/18 1:50 PM dart.lavoie.chanta

Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 5/4/18 1:50 PM dart.lavoie.chantal



200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com

Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Purchase Order PO039799

Order Placed By Chantal Lavoie

McMaster-Carr Number 3155178-01

Page 1 of 2 05/04/2018

		3155178-01		
Lin	е	Product	Ordered	Shipped
3	91247A740	Medium-Strength Grade 5 Steel Hex Head Screw, Zinc-Plated, 1/2"-13 Thread Size, 8" Long, Partially Threaded, Packs of 5	2 Packs	2
5	92196A341	18-8 Stainless Steel Socket Head Screw, 5/16"-24 Thread Size, 1" Long, Packs of 25	1 Pack	0
7	2416K97	Fatigue-Resistant 301 Stainless Steel, Strip, 0.031" Thick, 3/4" Wide, 10 Feet Long	2 Each	(2)
17	8932K45	Oil-Filled 841 Bearing Bronze Rod, 1" Diameter, 6-1/2" Long	4 Each	4
Shi	pped separa	tely from our Cleveland warehouse on 05/04		
1	90985A113	Knob-Grip Push-Button Quick-Release Pin, 1/4" Diameter, 1-1/2" Usable Length	6 Each	6
2	91247A122	Medium-Strength Grade 5 Steel Hex Head Screw, Zinc-Plated, 5/16"-24 Thread Size, 3" Long, Partially Threaded	2 Packs	2
4	98407A132	Side-Mount External Retaining Ring, Zinc Yellow-Chromate-Plated Steel, for 5/16" OD	1 Pack	1
6	9657K122	Compression Spring, Zinc-Plated, Tempered, Closed Ends, 2" Long, 0.438" OD	1 Pack	1
8	1217T42	Fatigue-Resistant 301 Stainless Steel Sheet, 12" x 36", 1/2 Hard Temper, 0.024" Thick	1 Each	1
9	1217T45	Fatigue-Resistant 301 Stainless Steel Sheet, 12" x 36", 1/2 Hard Temper, 0.059" Thick	1 Each	1
10		316 Stainless Steel Carabiner, Not for Lifting, 200 lbs. Capacity, 5/16" Thick, 15/16" Narrow-End Inside Width	4 Each	4
11		Smooth-Bore Seamless 304 Stainless Steel Tubing, 3/8" OD, 0.049" Wall Thickness, 8" Long	4 Each	4
12		Bent-Pull Clevis Pin with Hairpin Cotter Pin, Zinc-Plated Steel, 5/16" Diameter, 2-1/2" Usable Length	7 Each	7
13		Flame-Retardant Oil-Resistant Blended Buna-N Foam, Adhesive Back Strip, 1" x 50 Feet, 1/4" Thick	1 Each	1

200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Purchase Order P0039799

Order Placed By Chantal Lavoie

McMaster-Carr Number 3155178-01

Page 2 of 2 05/04/2018

Line	e	Description	Ordered	Shipped
14	8203K61	High-Strength 630 Bronze, 1" Diameter, 3 Feet Long	2 Each	2
15	8203K81	High-Strength 630 Bronze, 1-1/4" Diameter, 3 Feet Long	2 Each	1
16	2889K21	MDS-Filled Cast Nylon Rod, 1" Diameter, 2 Feet Long	3 Each	3



200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Purchase Order PO039799

Order Placed By Chantal Lavoie

McMaster-Carr Number 3155178-04

Page 1 of 1 05/04/2018

		3133170-04		
Line	9	Product	Ordered	Shipped
1	90985A113	Knob-Grip Push-Button Quick-Release Pin, 1/4" Diameter, 1-1/2" Usable Length	6 Each	6
2	91247A122	Medium-Strength Grade 5 Steel Hex Head Screw, Zinc-Plated, 5/16"-24 Thread Size, 3" Long, Partially Threaded, Packs of 25	2 Packs	(2)
4	98407A132	Side-Mount External Retaining Ring, Zinc Yellow-Chromate-Plated Steel, for 5/16" OD, Packs of 100	1 Pack	0
6	9657K122	Compression Spring, Zinc-Plated, Tempered, Closed Ends, 2" Long, 0.438" OD, Packs of 12	1 Pack	1
10	3777T12	316 Stainless Steel Carabiner, Not for Lifting, 200 lbs. Capacity, 5/16" Thick, 15/16" Narrow-End Inside Width	4 Each	4
11	89895K451	Smooth-Bore Seamless 304 Stainless Steel Tubing, 3/8" OD, 0.049" Wall Thickness, 8" Long	4 Each	4
12	90146A059	Bent-Pull Clevis Pin with Hairpin Cotter Pin, Zinc-Plated Steel, 5/16" Diameter, 2-1/2" Usable Length	7 Each	7
13	93695K58	Flame-Retardant Oil-Resistant Blended Buna-N Foam, Adhesive Back Strip, 1" x 50 Feet, $1/4$ " Thick	1 Each	0
16	2889K21	MDS-Filled Cast Nylon Rod, 1" Diameter, 2 Feet Long	3 Each	(3)
Shi	pped separa	tely from our Chicago warehouse on 05/04		
3	91247A740	Medium-Strength Grade 5 Steel Hex Head Screw, Zinc-Plated, 1/2"-13 Thread Size, 8" Long, Partially Threaded	2 Packs	2
5	92196A341	18-8 Stainless Steel Socket Head Screw, 5/16"-24 Thread Size, 1" Long	1 Pack	1
7	2416K97	Fatigue-Resistant 301 Stainless Steel, Strip, 0.031" Thick, 3/4" Wide, 10 Feet Long	2 Each	2
15	8203K81	High-Strength 630 Bronze, 1-1/4" Diameter, 3 Feet Long	2 Each	1
17	8932K45	Oil-Filled 841 Bearing Bronze Rod, 1" Diameter, 6-1/2" Long	4 Each	4



200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com

Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada

Purchase Order PO039799

Order Placed By Chantal Lavoie

McMaster-Carr Number 3155178-05

Page 1 of 1 05/04/2018

Line	e	Product	Ordered	Shipped	
14	8203K61	High-Strength 630 Bronze, 1" Diameter, 3 Feet Long	2 Each	()	
15	8203K81	High-Strength 630 Bronze, 1-1/4" Diameter, 3 Feet Long	, 2 Each		
Shi	pped separa	tely from our Chicago warehouse on 05/04			
3	91247A740	Medium-Strength Grade 5 Steel Hex Head Screw, Zinc-Plated, 1/2"-13 Thread Size, 8" Long, Partially Threaded	2 Packs	_	
5	92196A341	18-8 Stainless Steel Socket Head Screw, 5/16"-24 Thread Size, 1" Long	1 Pack	1	
7	2416K97	Fatigue-Resistant 301 Stainless Steel, Strip, 0.031" Thick, 3/4" Wide, 10 Feet Long	2 Each	2	
15	8203K81	High-Strength 630 Bronze, 1-1/4" Diameter, 3 Feet Long	2 Each		
		_==			
17	8932K45	Oil-Filled 841 Bearing Bronze Rod, 1" Diameter, 6-1/2" Long	Each	4	



Product

Packing List

200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com

Line

15 8203K81

Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada

High-Strength 630 Bronze, 1-1/4" Diameter, 3 Feet Long

Purchase Order PO039799

Order Placed By Chantal Lavoie

McMaster-Carr Number 3155178-02

Ordered Shipped

Each

Page 1 of 2 05/04/2018

			· ·	
Shi	pped separa	tely from our Cleveland warehouse on 05/04		
1	90985A113	Knob-Grip Push-Button Quick-Release Pin, 1/4" Diameter, 1-1/2" Usable Length	6 Each	6
2	91247A122	Medium-Strength Grade 5 Steel Hex Head Screw, Zinc-Plated, 5/16"-24 Thread Size, 3" Long, Partially Threaded	2 Packs	2
4	98407A132	Side-Mount External Retaining Ring, Zinc Yellow-Chromate-Plated Steel, for 5/16" OD	1 Pack	1
6	9657K122	Compression Spring, Zinc-Plated, Tempered, Closed Ends, 2" Long, 0.438" OD	1 Pack	1
8	1217T42	Fatigue-Resistant 301 Stainless Steel Sheet, 12" x 36", 1/2 Hard Temper, 0.024" Thick	1 Each	1
9	1217T45	Fatigue-Resistant 301 Stainless Steel Sheet, 12" x 36", 1/2 Hard Temper, 0.059" Thick	1 Each	1
10	3777T12	316 Stainless Steel Carabiner, Not for Lifting, 200 lbs. Capacity, 5/16" Thick, 15/16" Narrow-End Inside Width	4 Each	4
11	89895K4 5 1	Smooth-Bore Seamless 304 Stainless Steel Tubing, 3/8" OD, 0.049" Wall Thickness, 8" Long	4 Each	4
12	901 4 6A059	Bent-Pull Clevis Pin with Hairpin Cotter Pin, Zinc-Plated Steel, 5/16" Diameter, 2-1/2" Usable Length	7 Each	7
13	93695K58	Flame-Retardant Oil-Resistant Blended Buna-N Foam, Adhesive Back Strip, 1" \times 50 Feet, 1/4" Thick	1 Each	1
14	8203K61	High-Strength 630 Bronze, 1" Diameter, 3 Feet Long	2 Each	2
15	8203K81	High-Strength 630 Bronze, 1-1/4" Diameter, 3 Feet Long	2 Each	1



200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Purchase Order P0039799

Order Placed By Chantal Lavoie

McMaster-Carr Number 3155178-03

Page 1 of 1 05/04/2018

Lin	e	Product	Ordered	Shipped
8	1217T42	Fatigue-Resistant 301 Stainless Steel Sheet, 12" x 36", 1/2 Hard Temper, 0.024" Thick	1 Each	
9	1217T45	Fatigue-Resistant 301 Stainless Steel Sheet, 12" \times 36", 1/2 Hard Temper, 0.059" Thick	1 Each	0
Shi	ipped separa	itely from our Chicago warehouse on 05/04		
3	91247A740	Medium-Strength Grade 5 Steel Hex Head Screw, Zinc-Plated, 1/2"-13 Thread Size, 8" Long, Partially Threaded	2 Packs	2
5	92196A341	18-8 Stainless Steel Socket Head Screw, 5/16"-24 Thread Size, 1" Long	1 Pack	1
7	2416K97	Fatigue-Resistant 301 Stainless Steel, Strip, 0.031" Thick, 3/4" Wide, 10 Feet Long	2 Each	2
15	8203K81	High-Strength 630 Bronze, 1-1/4" Diameter, 3 Feet Long	2 Each	1
17	8932K45	Oil-Filled 841 Bearing Bronze Rod, 1" Diameter, 6-1/2" Long	4 Each	4

3

200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com

Line

16 2889K21

Description

Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada

MDS-Filled Cast Nylon Rod, 1" Diameter, 2 Feet Long

Purchase Order PO039799

Page 2 of 2 05/04/2018

Order Placed By **Chantal Lavoie**

McMaster-Carr Number

3155178-02

Ordered Shipped

3

Each

808

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 17 to M		101 8 20	16-R	1,000	B	PO / BATCH	NO.: <u>039</u>	199/SC
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	5			THICKNESS ORDERED: 1.000 THICKNESS RECEIVED: 1.000 SHEET SIZE ORDERED: V/A				
DESCRIPTION	(Ch	CR eck N)				COMMEN	TS	
SURFACE DAMAGE		IN						-
CORRECT FINISH	(Y)	N						
CORROSION	Y	M						
CORRECT GRAIN DIRECTION	(Y."	N	4					
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTU	N 05	979			
CORRECT THICKNESS	(Y)	N	, , ,		101			
PHOTO REQUIRED	Y	(N)				0 1		
CORRECT REF # TO LINK CERT	(2)	N	POHO	239789	7	Party	#2889	KZI
ORRECT MATERIAL IDENTFICATION	W	N		~, ,		,		
CORRECT M# ON THE MATERIAL	(Y)	N						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(N)						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(A)						
		\bigcup						
CUT SAMPLE PIECE				ND PRE		A HARDNE	SS CHECK.	
		_	HRC	HRE		DUR A	DUR D	WEBSTER
YPE OF MATERIAL			TINO _	FIRE		DONA	DOND	VVLDOTER
SIZE OF TEST SAMPLE								+
HARDNESS / DUROMETER READI	NG	-			-			
IANDINESS / DONOINE LEN READI		netoro	located in	the Qualit	Office			

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: AA	SIGNED OFF BY:
DATE: 9-89 MAY 0 8 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

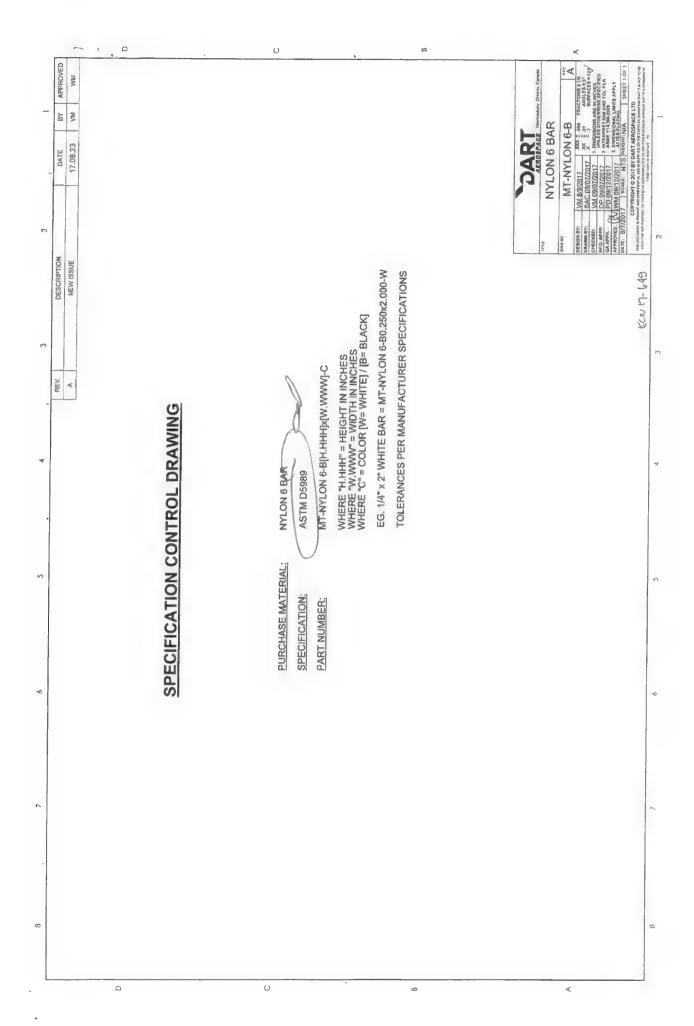
Impact Strength 0.7 ft -lbs /in (Poor)
 For use Outdoors 128
 Specifications Met. ASTM 05989

The addition of MDS awas these cast nylog 6 rods a self-subricating surface that's more slippery and wear resistant than statidated sust notice. Use them to facricate wilders and easier to machine than other types of nylon. They are also an excellent insulator number of the control of the c

2005			n XX
Dia	Tolerance Rating	Lengths,	Per Ft
1 2 4 3 4 4 4	Oversized	1, 2	2889F.21

MDS-Filled Cast Nylon Sheets and Bars Sheets





MATERIAL RECEIPT INSPECTION FORM

MATERIAL: <u>MBro</u> DATE: M		THICKNESS ORDERED: 1.000 THICKNESS RECEIVED: 1.000 SHEET SIZE ORDERED: V/A SHEET SIZE RECEIVED: V/A					
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	2						
DESCRIPTION	(Ch	CR eck (N)			COMMENT	rs	
SURFACE DAMAGE	Y,	(N)					
CORRECT FINISH	(Y)	N					
CORROSION	Y	(N)					
CORRECT GRAIN DIRECTION	(X)	N	A				
CORRECT MATERIAL PER M-DRAWING	(Y)	N	H5702	1 B43	7		
CORRECT THICKNESS	(A)	N	100				
PHOTO REQUIRED	Y	(N)					
CORRECT REF # TO LINK CERT	(Y)	N	12/H	8932K4	5-80HOS	749	
CORRECT MATERIAL IDENTFICATION		N					
CORRECT M# ON THE MATERIAL	(Y)	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(N)					
CUT SAMPLE PIEC				D PREFOR		SS CHECK.	
		_	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE							
	NG						

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	JAS 11	SIGNED OFF BY:
DATE:	9-89MAY 0 8 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ZOTI -07- 19

10.10.25 A NEW ISSUE

REV. A SHEET 1 OF 1 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO
R
MBRONZR
SHEE BRONZE ROUND BAR DATE 10.10.25 CHECKED MFG. APPR. APPROVED DESIGN

SPECIFICATION CONTROL DRAWING

0

PURCHASE MATERIAL: OIL IMPREGNATED SINTERED BRONZE ROUND BAR

SPECIFICATION: 13

SAE 841 TYPE 1, CLASS A OR AMS-T805 OR ASTM B438 GBADE 1, TYPE 2 OR MIC-B-56870 TYPE 1, GRADE 1

PART NUMBER:

MBRONZRD.DDD

WHERE "D.DDD" = DIAMETER IN INCHES EG. 5/8 ROUND BAR = MBRONZR0.625

U

co

F'-

Powdered bronze is pressed and then impregnated with SAE 30 oil to make this material self-lubricating. Use it to make bearings and parts for hard-to-reach areas that would be difference of well pumps and turbine blades.

	Tolerance	100		3"	6 1/2"
OD .	Rating	_ID		Lg	Lg
3/16" V	Vall Thick.	40		047.07	000 57
1 "	Oversized	5/8"	8931K111	517.27	\$26.57
1/4" Wa	all Thick.				
1"	Oversized	1/2"	8931K121	18.27	28.11
1 1/8"	Oversized	5/8"	8931K131	22.57	34.73
* 6	Oversized	3/4"	8931K141	24.27	37 34
1 >	Oversized	7.49**	8931K151	28.14	43.29
4	Oversized	1"	8931K161	30.66	47.17
	Oversized	4 + 4"	8931K171	31.26	48 09
2"	Oversized		S931k181	36.08	55 51
174"	Oversized	4	6931K191	41.83	64 35
5/16" V	/all Thick.	0.77	F00.11/001	24.02	36 96
1 1/8"	Oversized	1/0" 5/8"	5931K201 8931K211		38 58
1.4/4"	Oversized		8931K211	25.08	49 59
1 1/2"	Oversized	7/8"	8931K221	32.23	52 47
1 5/8"	Oversized	1	Cholbrol	34.11	32 41
3/8" Wa	all Thick.				
4 ;	Oversized	1/2"	\$931K241	25.81	39.70
	Oversized	5/8"	8931K251	33 56	51 63
4 ,	Oversized	2.6	8931F261	32 28	49 66
1 . 4	Oversized	A	8.31K271	38.42	59 11
2	Oversized	1.1/4"	8931K281	42 00	64 62
2	Oversized	1 1/2"	8931K291	50.56	77.78 82 42
5	Oversized	4 2/4"	8931K301	53.57	82 42
2 2 4	Civersized	2"	8931K311	58 79	90 44
3	Oversized	2 1/4"	8931K321	68 12	104 80
3 3/4"	Oversized	3"	\$931K331	82.73	127 27
G 1817	01415/204				,
				0.0	0.41011
	Tolerance Rating	· · ·		3"	6 1/2"
OD	Rating	ID		Lg	Lg
7716" V	/aff Thick	A1 45	00241.241	604.05	050.04
	Oversized	\$187	\$931F341	\$34 35	\$52 84
1/2" Wa	all Thick.				
1.1/0"	Oversized	172**	8931K351	37.06	57.02
1 3/4"	Oversized	3/4"	8931K361	43.90	67 54
2"	Oversized	1"	8931k371	48.93	75.28
2.1/4"	Overs.zed	1.14"	8931K331	58 86	90.55
2 1/2"	Oversized	1.1/2"	8931K391	61.91	95 25
2 3/4"	Oversized	1 3/4"	8931K401	68.61	105 55
3"	Oversized	2"	8931K411	78.49	120 76
3 1/4"	Oversized	2 174"	8931K421	87.10	134 00
3 1/2"	Oversized	2 1/2"	8931K431	92.86	142.86
d"	Oversized	3"	89311441	102 80	158 15
		0	00071-441	102 00	,00 10
	all Thick.				
2"	Oversized	3/4"	8931K451	53.95	83.00
2 02"	Oversized	1.174"	6931K461	69 39	106 75
3"	Oversized	1 3/4"	8931K471	84.51	130.02
3.544"	Oversized	2 1/2"	8931K481	116 76	179 63
11/16"	Wall Thick				
211	Wall Thick. Oversized	5/8"	8931K491	56.20	86 46
-					
	Tolorson			3"	6 1/2"
00	Tolerance	ID			
OD	Rating	10		Lg.	Lg .
3/4 VV	all Thick.	1.03	8931K501	\$60 68	\$93 36
٠.	Oversized	1/2"	8931K501	80 28	123 50
2.5	Oversized	1 1/2"	8931K521	92.44	142 21
2	Oversized		8931K521		210 02
4ª	Oversized	2 1/2"	05010001	136.51	21002
	all Thick.				
3"	Oversized	1 1/4"	89315541	97 87	150 57
3 1/2"	Oversized	1.348	8931K551	133.25	205 00
400 102-11					
1" Wall 3"	O manual	411	2021/204	104.20	160.24
5	Oversized	es e	8931K561	104.20	160 31
4"	Oversized	2"	8931K571	156 57	240 87
4 1/2"	Oversized	2 1/2"	8931K581	190.41	292 94
5"	Oversized	3"	8931K591	207.77	319 64
6"	Oversized	4"	8931K601	256 87	395 18
T I	Oversized	5"	8931K611	306 15	471 00
1 1/2" ¥	Vall Thick.				
6"	Oversized	3"	£931K621	327 13	503 27
					-

Oil-Filled 841 Bearing Bronze Rods



- Yield Strength, 11,000 psi
 Hardness Not Rated
- Securiar onsider ASTM

Powdered bronze is pressed and then impregnated with SAE 30 oil to make this material self-jubricating. Use it to make bearings and parts for hard-to-reach areas that would be difficult to access for lubrication, such as well pumps and turbine blades.

n - Dia	3	Tolerance Rating		2" Lg	3" Lg	6 1/2" Lg
		Oversized	1900×84 S	2 69		
		Oversized	₹ 5 K31		\$6 00	
		Oversized	351.2+41		9 17	\$12 74
		Oversized	2.30×40 \		12 76	17 72
3.5		Oversized	302-30	1	15 49	21 51
,		Oversized	Y ADDITION Y	1	17 05	26 23
11		Oversized	3932545		21 12	32 50
1 :		Oversized	A STANSON OF THE PARTY OF THE P		22 63	34 81
1		Oversized	243,74		27 20	41 84
1 - 4		Oversized	3912-48		31 85	49 00
4		Oversized	1.15 KB's		35 00	53 85
1 2		Oversized	3012 14		41 39	63 67
1 -		Oversized	8131K51		44 88	69 04
2'		Oversized	691, (1.1	-	54 93	84 51
2 4		Oversized	3900 K 64		68 55	105 46
2 .		Oversized	114 × K65		81 49	125 37
3'		Oversized	3- 12× 53		115 30	177 38
4"		Oversized	b. 3. K5 ·		199 97	307 64
5		Oversized	4 2.58		304 24	468 06
6'		Oversized	8032K69		427 15	657 15

3889

Oil-Filled 841 Bearing Bronze Tubes



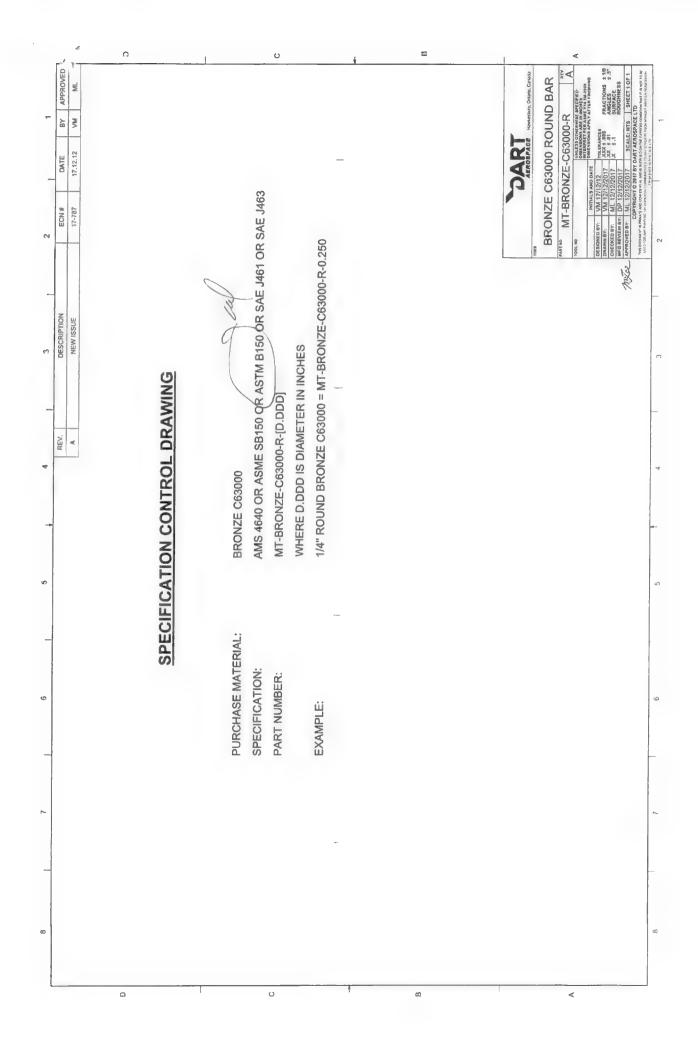
MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MA	Bron Y N	2 <i>e</i> -	<u>- C6300</u>	W-R1,250) PO/BA	TCH NO.:	0397,	99/506
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	100	5		TH SH	HICKNESS C HICKNESS R HEET SIZE C HEET SIZE R	ECEIVED:	1.2:	
DESCRIPTION	(Ch	CR reck (N)			COMM	MENTS		
SURFACE DAMAGE		(N)						
CORRECT FINISH	(Y)	N						
CORROSION	Y	(N)						
CORRECT GRAIN DIRECTION	(Y)	M		0 -				
CORRECT MATERIAL PER M-DRAWING	Ŷ	N	Astu	n B/50				
CORRECT THICKNESS	Y	N	10 1					
PHOTO REQUIRED	Y	(N)						
CORRECT REF # TO LINK CERT	(4)	N	Poste	03979	9- Vai	14186	403/68	7/
ORRECT MATERIAL IDENTFICATION	0	N	,			17		
CORRECT M# ON THE MATERIAL	(Y)	N						_
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(N)						
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	1						
OUT OATEN	- 0-		TECIAL	ND DDEEC	DM A LIAD	DNECC	LIECK	
CUT SAMPLE PIECE						חואבסס (DECK.	
	- 1	KEU		ULTS BEL		Λ Γ	NIB D	WEBSTER
NOE OF MATERIAL			HRC	HRB	DUR	AL	DUR D	VVEBSIER
YPE OF MATERIAL								-
SIZE OF TEST SAMPLE		_						
ARDNESS / DUROMETER READI				the Quality (

CUT SAMPLE PIECE OF	MATERIAL A	AND PREFOR	M A HARDNE	SS CHECK.	
R	RECORD RES	SULTS BELOV	N		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

QC 18 INSPECTION		ENGINEERING SIGNOFF (If required)
INSPECTED BY:	DAS	SIGNED OFF BY:
DATE:	9-89 AY 0 8 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



OD	Rating	ID.		Each	
3/16" Wall Thick	k.		07000000000000000000000000000000000000	***************************************	
1"	Oversized	5/8"	1260N13	\$24.32	
1 1/4"	Oversized	3/4"	1260N17	34.28	
1/4" Wall Thick.					
1"	Oversized	1/2"	1260N11	29.75	
1 1/8"	Oversized	5/8"	1260N15	32.00	
1 1/2"	Oversized	1"	1260N21	41.45	
1 3/4"	Oversized	1 1/4"	1260N27	47.52	
2"	Oversized	1 1/2"	1260N31	51.45	
3/8" Wall Thick.					
1 1/2"	Oversized	3/4"	1260N19	48.05	
1 3/4"	Oversized	4 11	1260N23	57.00	
2"	Oversized	1 1/4"	1260N29	65.11	
2 3/4"	Oversized	2"	1260N33	89.04	
1/2" Wall Thick.					
2"	Oversized	1"	1260N25	74.20	

High-Strength 630 Bronze

Tolerance



· Yield Strength: 50,000 psi

· Hardness: Rockwell B90 (Medium)

Temper: HR50

· Heat Treatable: No

Specifications Met: ASTM B150

The addition of nickel gives 630 bronze high strength. Also called aluminum-nickel-bronze, it's an excellent choice for heavy-load applications, such as hydraulic valve parts and pump shafts.

Dia.	Dia. Tolerance Range		1 ft. Lg.	3 ft. Lg.	6 ft. Lg.
3/8"	-0.004" to 0.004"	3203K11	\$14.29	\$33.16	\$57.17
1/2"	-0.004" to 0.004"	3203K21	23.54	54.62	94.17
5/8"	-0.004" to 0.004"	203K31	34.33	79.65	137.33
3/4"	-0.004" to 0.004" 8	203K41	47.34	109.82	189.34
7/8"	-0.004" to 0.004"	203K51	60.26	139.79	241.02
1"	-0.004" to 0.004"	203K61	73.50	170.52	294.00
1 1/4"	-0 004" to 0 004" \ 8	203K81	110.94	257.39	443.77
1 3/811	-0.004" to 0.004"	203K91	129.09	299.49	516.36
1 1/2"	-0.004" to 0.004"	203K14	150.94	350.17	603.75

Easy-to-Machine High-Strength 642 Bronze



Yield Strength: 42,000 psiHardness: Rockwell B65 (Soft)



INSPECTION CERTIFICATE 3.1 TO EN 10204

Customer:	BUSBY METALS LLC	Certificate No:	EI168000112.10
Customer.	850 FREEPORT PARKWAY, SUITE 400 COPPELL, TX U.S.A 75019	Batch No:	160964
	U.S.A.	Order:	PO-20401388
Alloy:	C63000	Quantity:	1940 lb
	ASTM B 150 - 12 HR50, ASTM B 124 - 14a,	Description:	ROUND RODS
Specification	SAE AMS 4640H, QQ-C-465B AM1 ALUMINUM BRONZE ROD, BAR & SHAPES	Size:	1.25"

Chemical Composition in %

		Ch	emical	Compo	ositio	n in %			1 (7	() 41
Element	Al	Cu +Ag	Fe	Ni + Co	Ni	Mn	Si	Sn	Zn	Others total
Required Min:	9.0	Rest	2.0	4.0	4.0			-	-	-
	11.0	Rest	4.0	5.5	5.5	1.5	0.25	0.20	0.30	0.5
Required Max:				4.6	4.6	0.9	0.06	0.03	0.22	< 0.5
Measured value:	10.8	Rest	3.3	4.6	4.0	0.5	0.00	0.05		

Mechanical Properties

		Round f	rom 1" up t	o 2" incl.		XX June
Test	Tensile strength		Yield s	trength 1.5% Under Load	Elongation	Hardness
	Lui	MPa	ksi	MPa	%	HB
Units:	ksi		60	415	10	201
Required Min:	110	760	00	713		248
Required Max:		-	-	-	22	222
Measured value:	112	773	65	452	22	

REMARKS 1: MERCURY FREE STATEMENT: Finkelstein Metals LTD does not knowingly expose material to mercury nor use mercury or mercury products in the production process.

2. RoHS Compliance

3. Ammonia Vapor Test passed as per ASTM B858

4. Melted and Made in Israel

Pini Peker Quality control manager

24/05/2016 Date of inspection



Finkelstein Metals LTD - AS9100C Certificate No #8023

BUSBY METALS Q.A. APPROVED DEC 16 2016 mm Q.A. DESIGNEE

21 Haistadion St. P.O.B 10031 • Haifa Bay, 2611001 • Israel • Tel. +972-4-8722547 • Fax +972-4-8720288 www.finkelstein-metals.com • info@finkelstein-metals.com



MATERIAL RECEIPT INSPECTION FORM

MATERIAL CERT REC'D:	15			THI	CKNESS ORDE	RED: 140	150		
QUANTITY RECEIVED:	3 (THI	CKNESS RECEI	VED:2	50		
QUANTITY INSPECTED: 3				SHEET SIZE ORDERED: NA					
QUANTITY REJECTED:					ET SIZE RECEI	VED: N/	A		
DESCRIPTION		CR neck			COMMENT				
DEGGINI TION	,	Y/N)							
SURFACE DAMAGE	Y	I/N)							
CORRECT FINISH	(Y)	N							
CORROSION	Y	(N)							
CORRECT GRAIN DIRECTION	(Y)	N							
CORRECT MATERIAL PER M-DRAWING	(Y)	N	Astn	n B 150)				
CORRECT THICKNESS	(Y)	N	,,,,						
PHOTO REQUIRED	Y	(N)			-0 1				
CORRECT REF # TO LINK CERT	(1)	N	Post(339799	- Varle	+ 8203	181		
CORRECT MATERIAL IDENTFICATION	D	N	0,		, , ,				
CORRECT M# ON THE MATERIAL	(Y)	N							
DOES THIS MATERIAL REQUIRE									
ENGINEERING SIGN OFF	Y	(0)							
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N							
				_					
CUT SAMPLE PIEC				ND PREFOR		SS CHECK.			
			HRC	HRB	DUR A	DUR D	WEBSTER		
YPE OF MATERIAL									
SIZE OF TEST SAMPLE									
HARDNESS / DUROMETER READI	NG								

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ENGINEERING SIGNOFF (if required)

SIGNED OFF BY:

DATE:

9-89 MAY 0 8 7018

QC 18 INSPECTION

INSPECTED BY:

DATE:

OD	Tolerance Rating	ID		Each
3/16" Wall Thick.				
1"	Oversized	5/8"	1260N13	\$24.32
1 1/4"	Oversized	3/4"	1260N17	34.28
1/4" Wall Thick.				
1"	Oversized	1/2"	1260N11	29.75
1 1/8"	Oversized	5/8"	1260N15	32.00
1 1/2"	Oversized	1"	1260N21	41.45
1 3/4"	Oversized	1 1/4"	1260N27	47.52
2"	Oversized	1 1/2"	1260N31	51.45
3/8" Wall Thick.				
1 1/2"	Oversized	3/4"	1260N19	48.05
1 3/4"	Oversized	1"	1260N23	57.00
2"	Oversized	1 1/4"	1260N29	65.11
2 3/4"	Oversized	2"	1260N33	89.04
1/2" Wall Thick.				
2"	Oversized	1"	1260N25	74.20
1 3/4" 2" 2 3/4" 1/2" Wall Thick.	Oversized Oversized Oversized	1" 1 1/4" 2"	1260N23 1260N29 1260N33	57.00 65.11 89.04

High-Strength 630 Bronze



• Yield Strength: 50,000 psi

· Hardness: Rockwell B90 (Medium)

• Temper: HR50

· Heat Treatable: No-

Specifications Met ASTM-B150

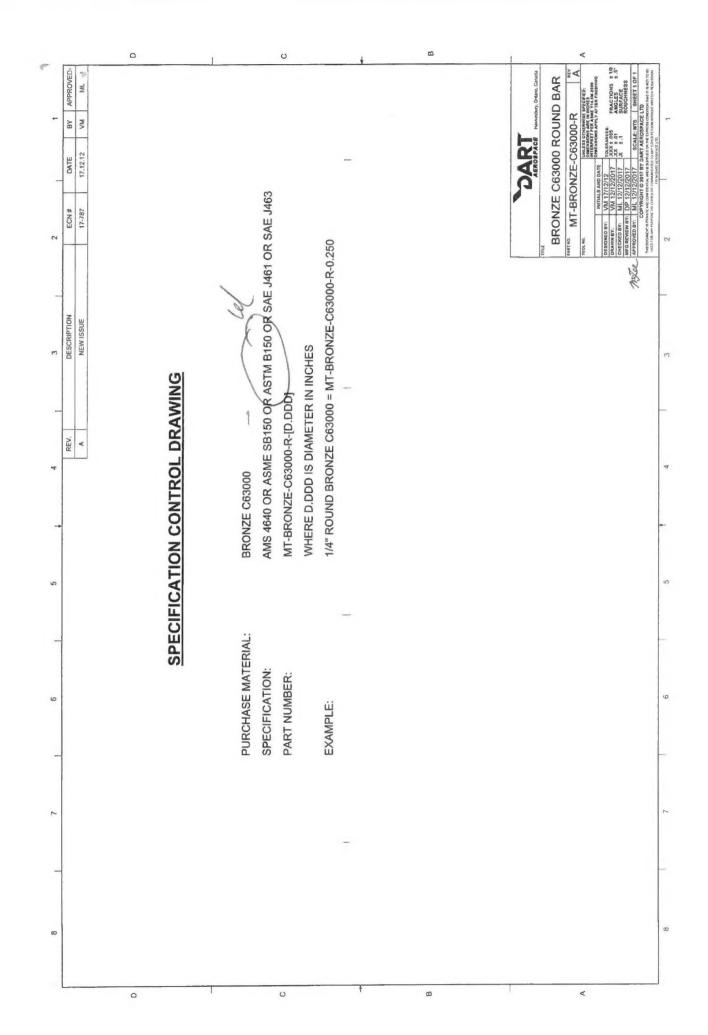
The addition of nickel gives 630 bronze high strength. Also called aluminum-nickel-bronze, it's an excellent choice for heavy-load applications, such as hydraulic valve parts and pump shafts.

Dia.	Dia. Tolerance Ra	inge		1 ft. Lg.	3 ft. Lg.	6 ft. Lg.	
3/8"	-0.004" to 0.004"		8203K11	\$14.29	\$33.16	\$57.17	
1/2"	-0.004" to 0.004"			8203K21	23.54	54.62	94.17
5/8"	-0.004" to 0.004"		8203K31	34.33	79.65	137.33	
3/4"	-0.004" to 0.004"		8203K41	47.34	109.82	189.34	
7/8"	-0.004" to 0.004"	1	8203K51	60.26	139.79	241.02	
111	-0.004" to 0.004"	7	8203K61	73.50	170.52	294.00	
1 1/4"	-0.004" to 0.004"	26	8203K81	110.94	257.39	443.77	
1 3/8"	-0.004" to 0.004"		8203K91	129.09	299.49	516.36	
1 1/2"	-0.004" to 0.004"		8203K14	150.94	350.17	603.75	

Easy-to-Machine High-Strength 642 Bronze



Yield Strength: 42,000 psiHardness: Rockwell B65 (Soft)



MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-	ΙΑΥ (87	018					, (
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:				THICKNESS ORDERED: 1.000 THICKNESS RECEIVED: 1.000 SHEET SIZE ORDERED: 1.000 SHEET SIZE RECEIVED: 1.000				
DESCRIPTION	(Ch	CR leck (N)			C	OMMENT	-s	
SURFACE DAMAGE	Y	(N)						
CORRECT FINISH	(A)	N						
CORROSION	Y	N						
CORRECT GRAIN DIRECTION	W	N	A					
ORRECT MATERIAL PER M-DRAWING	X	N	4570	~ B150				
CORRECT THICKNESS	(Y)	N	, ,					
PHOTO REQUIRED	X	(N)				<u> </u>		-
CORRECT REF # TO LINK CERT	(X)	N	10 HC	339799	f	artA	82031	61
PRECT MATERIAL IDENTFICATION	(X	N						
CORRECT M# ON THE MATERIAL	Y	N						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(2)				0 (0.1		
CUT SAMPLE PIEC				AND PREFO		HARDNE:	SS CHECK.	
			HRC	HRB		UR A	DUR D	WEBSTER
PE OF MATERIAL								
ZE OF TEST SAMPLE								
RDNESS / DUROMETER READI	NG							
		eters	located in	the Quality O	ffice			

DATE: 9-89 MAY 0 8 2018 DATE:

ENGINEERING SIGNOFF (if required)

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION

OD	Tolerance Rating	ID		Each
3/16" Wall T	hick.			
1"	Oversized	5/8"	1260N13	\$24.32
1 1/4"	Oversized	3/4"	1260N17	34.28
1/4" Wall Th	ick.			
1"	Oversized	1/2"	1260N11	29.75
1 1/8"	Oversized	5/8"	1260N15	32.00
1 1/2"	Oversized	1"	1260N21	41.45
1 3/4"	Oversized	1 1/4"	1260N27	47.52
2"	Oversized	1 1/2"	1260N31	51.45
3/8" Wall Th	ick.			
1 1/2"	Oversized	3/4"	1260N19	48.05
1 3/4"	Oversized	1"	1260N23	57.00
2"	Oversized	1 1/4"	1260N29	65.11
2 3/4"	Oversized	2"	1260N33	89.04
1/2" Wall Th	ick.			
2"	Oversized	1"	1260N25	74.20

High-Strength 630 Bronze



· Yield Strength: 50,000 psi

· Hardness: Rockwell B90 (Medium)

· Temper: HR50

· Heat Treatable: No

Specifications Met: ASTM B150

The addition of nickel gives 630 bronze high strength. Also called aluminum-nickel-bronze, it's an excellent choice for heavy-load applications, such as hydraulic valve parts and pump shafts.

Dia.	Dia. Tolerance Ra	nge	1 ft. Lg.	3 ft. Lg.	6 ft. Lg.
3/8"	-0.004" to 0.004"	8203K11	\$14.29	\$33.16	\$57.17
1/2"	-0.004" to 0.004"	8203K21	23.54	54.62	94.17
5/8"	-0.004" to 0.004"	/ 8203K31	34.33	79.65	137.33
3/4"	-0.004" to 0.004"	, 8203K41	47.34	109.82	189.34
7/8"	-0.004" to 0.004"	M 8203K51	60.26	139.79	241.02
111	-0.004" to 0.004"	(8203K61	73.50	170.52	294.00
1 1/4"	-0.004" to 0.004"	8203K81	110.94	257.39	443.77
1 3/8"	-0.004" to 0.004"	8203K91	129.09	299.49	516.36
1 1/2"	-0.004" to 0.004"	8203K14	150.94	350.17	603.75

Easy-to-Machine High-Strength 642 Bronze



· Yield Strength: 42,000 psi

· Hardness: Rockwell B65 (Soft)

0 BY APPROVED **BRONZE C63000 ROUND BAR** MT-BRONZE-C63000-R 17.12.12 DATE AMS 4640 OR ASME SB150 OR ASTM B150 OR SAE J461 OR SAE J463 ECN# 17-787 1/4" ROUND BRONZE C63000 = MT-BRONZE-C63000-R-0.250 Mixee DESCRIPTION NEW ISSUE WHERE D.DDD IS DIAMETER IN INCHES SPECIFICATION CONTROL DRAWING MT-BRONZE-C63000-R-[D.DDD] REV. BRONZE C63000 PURCHASE MATERIAL: SPECIFICATION: PART NUMBER: EXAMPLE: 8

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